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research, and seems to cover very thoroughly the literature of the subject. He appears to weigh the evidence, for the most part, very judiciously, but, as he himself deplors (p. 191), he is seriously handicapped in his task by the fact that he is not professionally an ornithologist, and is thus untrained in the technique of the science. He is hence hopelessly at sea where questions of nomenclature, synonymy, and classification are concerned, the status of species and subspecies and of questionable forms proving frequent and troublesome stumbling-blocks in his way. He has, however, brought together a large amount of information bearing on the subject in hand, which, aside from its intrinsic interest, will be a valuable aid to any investigator desirous of pursuing the subject further.

After sifting the available evidence, he reaches the conclusion (p. 442) that the authentic instances of crossing in a state of nature between birds of unquestioned specific distinctness number only 24, many of which are between species commonly referred to distinct genera. Among types which he considers merely races or varieties of the same species he adduces 20 cases, to which he adds 7 others he thinks should be entered in the same category. He cites 34 additional alleged cases where to him the evidence is not, for one reason or another, wholly satisfactory. His work is well worthy of careful examination by those especially interested in the subject of hybridity. Unfortunately the text is greatly marred by incorrect spelling of personal and geographical names, to such an extent indeed as to give the effect of careless composition and a generally unscholarly appearance.—J. A. A.

#### Minor Ornithological Publications.—

##### American Field.

'The American Field' was last noticed here in Vol. VIII, pp. 387-392, where the record was carried through Vol. XXXIV. Since then it has not contained much ornithology, the only contributions worthy of mention in Vols. XXXV-XXXVII (Jan., 1891, June, 1892) being the following (Nos. 2452-2465).

2452. *Birds Observed in Alabama*. By W. C. A[very]. 'American Field,' Vol. XXXV, No. 1, Jan. 3, 1891, p. 8; No. 2, Jan. 10, 1891, p. 32; No. 3, Jan. 17, 1891, p. 55. — An interesting 'local list.' For the previous parts of the paper see Auk, VIII, 392, No. 2111.

2453. *Days with the Waterfowl of America*. By Dr. F. Henry Yorke. *Ibid.*, No. 2, Jan. 10, 1891, pp. 25-27, No. 3, Jan. 17, 1891, pp. 49-51, No. 4, Jan. 24, 1891, pp. 73-74, No. 5, Jan. 31, 1891, pp. 97-99, [*Anas discors*]; No. 6, Feb. 7, 1891, pp. 121-123, No. 7, Feb. 14, 1891, pp. 145-147, [*Anas boschas*]; No. 8, Feb. 21, 1891, pp. 169-171 [*Anas boschas*, *Grus mexicana*, *Botaurus lentiginosus*]; No. 9, Feb. 28, 1891, pp. 193-195, No. 10, March 7, 1891, pp. 217-219, No. 11, March 14, 1891, pp. 245-247, [*Anas boschas*]; No. 12, March 21, 1891, pp. 269-271, No. 13, March 28, 1891, pp. 293-295,

## [American Field.—Continued.]

[*Aythya marila nearctica et al.*]; No. 14, April 4, 1891, pp. 317-319, No. 15, April 11, 1891, pp. 341-343, [*Dafila acuta*]; No. 16, April 18, 1891, pp. 365-367, No. 17, April 25, 1891, pp. 389-391, [*Aythya americana*]; No. 18, May 2, 1891, pp. 413-415 [*Aythya collaris*]; No. 19, May 9, 1891, pp. 453-455 [*Aythya vallisneria*]; No. 20, May 16, 1891, pp. 485-487, No. 21, May 23, 1891, pp. 509-511, [*Aix sponsa*]; No. 22, May 30, 1891, pp. 533-535 [*Anas carolinensis*]; No. 23, June 6, 1891, pp. 561-563 [*Anser albifrons gambeli* and *Chen hyperborea*]; No. 24, June 13, 1891, pp. 589-591, No. 25, June 20, 1891, pp. 613-615, [*Branta canadensis*]; No. 26, June 27, 1891, pp. 641-643 [*Branta canadensis*, *Olor columbianus* and *O. buccinator*].—Narratives of duck-shooting, containing considerable information upon the habits of the species above noted. See Nos. 2459 and 2460.

2454. [*Self-domestication of Colinus virginianus*]. By Kaiser. *Ibid.*, No. 3, Jan. 17, 1891, p. 55.

2455. *The Need of a More Thorough Study of the Muscular System in Birds*. By R. W. Shufeldt. *Ibid.*, No. 5, Jan. 31, 1891, p. 104.

2456. *The American Swan*. By John Dean Caton. *Ibid.*, No. 7, Feb. 14, 1891, pp. 150-151. — *Olor columbianus* and *O. buccinator*.

2457. *American Swans*. By Thos. G. Farrell. *Ibid.*, No. 12, March 21, 1891, pp. 274-275.

2458. *A Long-ago Visit to Lake De Smet*. By R. W. Shufeldt. *Ibid.*, No. 13, March 28, 1891, pp. 299-300. — In Wyoming. Various birds mentioned.

2459. Dr. Yorke's Articles. Editorial. *Ibid.*, Vol. XXXVI, No. 2, July 11, 1891, p. 25. — Critical of No. 2453. See also No. 2460.

2460. Dr. Yorke's Letters. By Thos. G. Farrell. *Ibid.*, p. 27.

2461. [*Habits of Gallinago delicata*]. By Naumkeag. *Ibid.*, p. 31.

2462. [*Colinus virginianus* breeding in domestication.] By W. N. Waller. *Ibid.*

2463. [*Connecticut shore birds*]. By A. W. J. *Ibid.*, No. 7, Aug. 15, 1891, p. 151. — *Totanus flavipes*, *Charadrius dominicus* and *Numenius hudsonicus*.

2464. Hatching and Rearing Quails in Captivity. *Ibid.*, No. 11, Sept. 12, 1891, p. 250. — From the Philadelphia 'Public Ledger.'

2465. How Snipes Rise. By Dace. *Ibid.*, No. 21, Nov. 21, 1891, p. 494. — *Gallinago delicata*.

## Forest and Stream.

The last notice of 'Forest and Stream' was in pages 66-69 of the present volume. In Vols. XXXVII and XXXVIII (July, 1891, - June, 1892) are the following (Nos. 2466-2517).

2466. *Those Grouse Chicks*. By Jay Beebe. 'Forest and Stream,' Vol. XXXVII, No. 1, July 23, 1891, p. 4. — *Bonasa umbellus*.

2467. *The Carolina Paroquet*. By Frank M. Chapman. *Ibid.*, No. 3, Aug. 6, 1891, p. 44. — Request for information concerning it.

## [Forest and Stream.—Continued.]

2468. *Leaves from a Note-book*. By Shoshone. *Ibid.*, No. 4, Aug. 13, 1891, pp. 63-64. — Notes on *Dendragapus obscurus* and *Anas boschas*.
2469. *Carolina Paroquet*. By Theodore Gordon. *Ibid.*, p. 64.
2470. *Rearing Quail in Confinement*. By O. O. S. *Ibid.*, No. 5, Aug. 20, 1891, p. 83.
2471. *Pennsylvania Notes*. By W. *Ibid.* — Birds breeding at Kane, McKean Co.
2472. *Rearing Game Birds*. By M. B., Hugh D. Auchincloss, Ernest E. Thompson, et al. *Ibid.*, No. 7, Sept. 3, 1891, pp. 123-124. — Golden Pheasant, Mongolian Pheasant, Sharp-tailed Grouse, Bob-white, and other species.
2473. *Ways of the Ruffed Grouse*. By Dorp. *Ibid.*, p. 126.
2474. *Chen rossii in Montana*. By George Bird Grinnell. *Ibid.*, No. 8, Sept. 10, 1891, p. 144.
2475. *Ways of the Ruffed Grouse*. By Dorp. *Ibid.*, No. 9, Sept. 17, 1891, p. 163.
2476. *Pennsylvania Bird Notes*. By W. *Ibid.*, No. 10, Sept. 24, 1891, pp. 182-183. — *Thryothorus bewickii* and *Corvus c. principalis*, among other species.
2477. *Late Birds' Nests*. By D. W. D. *Ibid.*, p. 183. — *Colinus virginianus*.
2478. *The Carolina Paroquet in Florida*. By John M. McCrary and August Koch. *Ibid.*
2479. *Notes from the Game Fields*. By T. H. B[ean?] et al. *Ibid.* — Notes *Oidemia deglandi* and *Ectopistes migratorius* summering at Wood's Holl, Mass.
2480. *Fishing with Trained Cormorants*. By F. S. Dugmore. *Ibid.*, p. 186; No. 11, Oct. 1, 1891, p. 208; No. 12, Oct. 8, 1891, pp. 231-232; No. 13, Oct. 15, 1891, p. 252.
2481. *Ways of the Ruffed Grouse*. By Dorp. *Ibid.*, No. 11, Oct. 1, 1891, p. 207.
2482. *Birds of the Chehalis Forests*. By Robert H. Lawrence. *Ibid.*, No. 13, Oct. 15, 1891, p. 247. — In western Washington.
2483. *Ways of the Ruffed Grouse*. By E. W. L. and Dorp. *Ibid.*
2484. *A Virginia Rail in New York City*. By Spencer Aldrich. *Ibid.*
2485. *Stalking of the Drumming Grouse*. By F. G. H. *Ibid.*
2486. [Notes from Cando, N. D.] By E. T. Judd. *Ibid.*, p. 250. — Migration of Snow. Hutchins's, and Canada, Geese.
2487. *Some New Varieties of Bird Song*. By Julia M. Hooper. *Ibid.*, No. 14, Oct. 22, 1891, p. 268.
2488. *A Nesting Woodcock*. By H. E. P. *Ibid.*
2489. *The Antics of a Tame Jay*. By D. W. D. *Ibid.*, No. 16, Nov. 5, 1891, p. 307.
2490. *Nest of Ruby-crowned Kinglet*. By H. Austen. *Ibid.*, No. 19, Nov. 26, 1891, p. 368.

## [Forest and Stream.—Continued.]

2491. *Ways of the Ruffed Grouse*. By Dorp. *Ibid.*, No. 20, Dec. 3, 1891, p. 390.

2492. *Ways of the Ruffed Grouse*. By Dorp. *Ibid.*, No. 21, Dec. 10, 1891, p. 410.

2493. *Ways of the Ruffed Grouse*. By Dorp. *Ibid.*, No. 22, Dec. 17, 1891, p. 426.

2494. [*Ways of the Grouse*.] By Dorp. *Ibid.*, No. 24, Dec. 31, 1891, p. 469.

2495. *Wildfowl at Cohasset*. By E. H. Clark. *Ibid.*, Vol. XXXVII, No. 1, Jan. 7, 1892, p. 9.

2496. *Gambel's Partridge*. By Chas. E. Bendire. *Ibid.*, No. 2, Jan. 14, 1892, p. 27.

2497. *The Summer Roosts of Birds*. By Hermit. *Ibid.*, No. 3, Jan. 21, 1892, p. 52.

2498. *Shore Birds near Toronto*. By C. W. Nash. *Ibid.*, No. 4, Jan. 28, 1892, p. 77. — An annotated list of 31 species.

2499. *The Bald Eagle*. By Chas. E. Bendire. *Ibid.*, No. 8, Feb. 25, 1892, p. 172.

2500. *Wild Geese in Winter*. By Annie E. Preston and the editor. *Ibid.*, No. 9, March 3, 1892, p. 196.

2501. *The Instinct of the Cowbird*. By M. A. Walton. *Ibid.*, No. 12, March 24, 1892, pp. 271–272.

2502. *Tamed Hummingbirds*. By Julia M. Hooper. *Ibid.*, p. 272. — *Trochilus colubris*.

2503. *The Brown Pelican*. By Morris Gibbs. *Ibid.*, No. 13, March 31, 1892, p. 296.

2504. *The Ousel in Oregon*. By O. O. S. *Ibid.*, No. 14, April 7, 1892, p. 319.

2505. *Birds in Central New Brunswick*. By W. H. Moore. *Ibid.* — Near Scotch Lake.

2506. *Seen From My Window*. By Immer Dein. *Ibid.*, p. 320. — Winter birds at Comox, British Columbia.

2507. *Chickens Using Among Cattle*. By Charles Hallock. *Ibid.* — *Tympanuchus americanus*.

2508. *Spring Weather in the Adirondacks*. By R. S. Spears. *Ibid.*, p. 324. — Spring arrivals at Northwood, N. Y.

2509. *Taming Hummingbirds*. By Didymus. *Ibid.*, No. 15, April 14, 1892, p. 348. — *Trochilus colubris*.

2510. *Young Woodcock in March*. By Charles Hallock. *Ibid.* — In North Carolina.

2511. *The White Swan*. By Pigarth and the editor. *Ibid.*, No. 16, April 21, 1892, p. 372. — *Olor columbianus* at Harrisburg, Penn.

2512. *The Water Ousel*. By S. H. Greene. *Ibid.*, No. 17, April 28, 1892, p. 395.

2513. *Wild Pigeons*. By Taxi. *Ibid.*, No. 18, May 5, 1892, p. 418. — At Larimore, N. D.

## [Forest and Stream.—Continued.]

2514. *Massachusetts Sharptail Grouse*. By Newton Dexter. *Ibid.*, No. 22, June 2, 1892, p. 517. — Contains a note on *Phalaropus lobatus*.

2515. *Ways of the Ruffed Grouse*. By Dorp. *Ibid.*, p. 520.

2516. *Prot[h]onotary Warbler in Massachusetts*. By C. E. B. *Ibid.*, No. 24, June 16, 1892, p. 562.

2517. *Butcher Birds and Hawks*. By Didymus. *Ibid.*, No. 25, June 23, 1892, p. 588. — *Lanius ludovicianus*. — C. F. B.

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Bolles, Frank. Ways of the Owl. (Pop. Sci. Month., July, 1892.)

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Piers, Harry. Notes on Nova Scotian Zoölogy, No. 2. (Trans. Nova Scotia Inst. Sci., 2d Ser., Vol. I.)

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